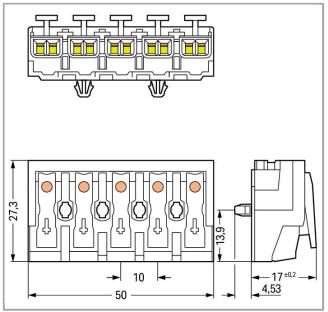
Lighting connector; push-button, external; without ground contact; 5-pole; Lighting side: for all conductor types; Inst. side: for solid conductors; max. 2.5 mm²; Ambient temperature: max. 85 °C (T85)



294-5045





Item description

- External connection of solid, stranded and fine-stranded conductors
- Universal conductor termination (AWG, metric)
- Third contact at bottom
- Strain relief plate can be retrofitted

Data

Electrical data

Ratings per IEC/EN 60664-1

Ratings note	Connection points
Rated voltage (II / 2)	500 V
Rated impulse voltage (II / 2)	4 kV
Rated current	24 A
Ratings according to 2	IEC/EN 60998-2-2

294-5045



Ratings note 2	Connection points
Rated voltage (II / 2) 2	500 V
Rated impulse voltage (II / 2) 2	4 kV
Rated current (2)	24 A
Rated current (3)	16 A

Connection data

Connection technology Push-in CAGE CLAMP® Number of connection points (connection type) 2 Actuation type Operating tool Push-button Connectable conductor materials Copper Solid conductor 0.52.5 mm² / 1812 AWG Solid conductor 0.52.5 mm² / 1812 AWG Stranded conductor 0.52.5 mm² / 1814 AWG Fine-stranded conductor with ferrule with plastic collar 0.52.5 mm² / 1814 AWG Fine-stranded conductor with ferrule without plastic collar 0.51.5 mm² / 1816 AWG Strip length 89 mm / 0.310.35 inch Connection type (2) Internal 2 Connection type (2) Internal 2 Connection type (2) Internal 2 Connection type (3) 1.5	Connection type (1)	External 1
Actuation type Operating tool Push-button Connectable conductor materials Copper Solid conductor O.52.5 mm² / 1812 AWG Solid conductor, push-in termination O.52.5 mm² / 1812 AWG Stranded conductor O.52.5 mm² / 1814 AWG Stranded conductor O.52.5 mm² / 1814 AWG Fine-stranded conductor with ferrule with plastic collar Fine-stranded conductor with ferrule without plastic collar O.51.5 mm² / 1816 AWG Strip length Summary / 1814 AWG Strip length Summary / 1816 AWG Strip length Summary / 1814 AWG Strip length Summary / 1814 AWG Strip length Summary / 1814 AWG Summary / 18.	Connection technology	Push-in CAGE CLAMP®
Connectable conductor materials Copper Solid conductor 0.5 2.5 mm² / 18 12 AWG Solid conductor, push-in termination 0.5 2.5 mm² / 18 12 AWG Stranded conductor 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with ferrule with plastic collar 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with ferrule without plastic collar 0.5 1.5 mm² / 18 16 AWG Strip length 8 9 mm² / 0.31 0.35 inch Connection type (2) Internal 2 Connection technology 2 PUSH WIRE® Number of connection points 1 Solid conductor (2) 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with insulated ferrule (2) 0.5 1.5 mm² / 18 14 AWG Fine-stranded conductor with uninsulated ferrule (2) 0.5 1.5 mm² / 18 14 AWG Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) 0.5 1.5 mm² / 18 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG	Number of connection points (connection type)	2
Solid conductor 0.52.5 mm² / 1812 AWG Solid conductor, push-in termination 0.52.5 mm² / 1812 AWG Stranded conductor 0.52.5 mm² / 1814 AWG Fine-stranded conductor 0.52.5 mm² / 1814 AWG Fine-stranded conductor with ferrule with plastic collar 0.51.5 mm² / 1816 AWG Fine-stranded conductor with ferrule without plastic collar 0.51.5 mm² / 1816 AWG Strip length 89 mm / 0.31 0.35 inch Connection type (2) Internal 2 Connection technology 2 PUSH WIRE® Number of connection points 1 Solid conductor (2) 0.52.5 mm² / 1814 AWG Fine-stranded conductor with insulated ferrule (2) 0.51.5 mm² / 1816 AWG Fine-stranded conductor with uninsulated ferrule (2) 0.51.5 mm² / 1816 AWG Strip length (2) 89 mm / 0.310.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) 0.51 mm² / 18 AWG Fine-stranded conductor with insulated ferrule (3) 0.50 75 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) 0.50 75 mm² /	Actuation type	
Solid conductor, push-in termination 0.52.5 mm² / 1812 AWG Stranded conductor 0.52.5 mm² / 1814 AWG Fine-stranded conductor with ferrule with plastic collar 0.51.5 mm² / 1816 AWG Fine-stranded conductor with ferrule without plastic collar 0.51.5 mm² / 1816 AWG Fine-stranded conductor with ferrule without plastic collar 0.51.5 mm² / 1816 AWG Strip length 89 mm / 0.31 0.35 inch Connection type (2) Internal 2 Connection technology 2 PUSH WIRE* Number of connection points 1 Solid conductor (2) 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with insulated ferrule (2) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with uninsulated ferrule (2) 0.5 1.5 mm² / 18 14 AWG Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) 0.5 1.5 mm² / 18 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 1.5 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) 0.5 0.75 mm² / 18 AWG Fine-stranded conductor w	Connectable conductor materials	Copper
Stranded conductor 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with ferrule with plastic collar 0.5 1.5 mm² / 18 16 AWG Strip length 8 9 mm / 0.31 0.35 inch Connection type (2) Internal 2 Connection technology 2 PUSH WIRE 4 Number of connection points 1 Solid conductor (2) 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with insulated ferrule (2) 0.5 1 mm² / 18 14 AWG Fine-stranded conductor with uninsulated ferrule (2) 0.5 1.5 mm² / 18 16 AWG Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) 0.5 0.75 mm² / 18 AWG No. of poles 5	Solid conductor	0.5 2.5 mm² / 18 12 AWG
Fine-stranded conductor	Solid conductor, push-in termination	0.5 2.5 mm² / 18 12 AWG
Fine-stranded conductor with ferrule with plastic collar Fine-stranded conductor with ferrule without plastic collar Strip length 8 9 mm / 0.31 0.35 inch Connection type (2) Internal 2 Connection technology 2 PUSH WIRE® Number of connection points 1 Solid conductor (2) Fine-stranded conductor with insulated ferrule (2) Fine-stranded conductor with uninsulated ferrule (2) Strip length (2) Connection type (3) Number of connection points 1 Solid conductor (3) Solid conductor (3) Number of connection points 1 Solid conductor (3) Connection type (3) Number of connection with insulated ferrule (3) Solid conductor with insulated ferrule (3) Fine-stranded conductor with insulated ferrule (3) Solid conductor (3) Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) Number of connection points 1 Solid conductor (5) Total number of connection points 5 Number of connection points 5 Total number of connection types 4	Stranded conductor	0.5 2.5 mm² / 18 14 AWG
Fine-stranded conductor with ferrule without plastic collar Strip length 89 mm / 0.31 0.35 inch Connection type (2) Internal 2 Connection technology 2 PUSH WIRE® Number of connection points 1 Solid conductor (2) Fine-stranded conductor with insulated ferrule (2) Strip length (2) Connection type (3) Number of connection points 1 Solid conductor (3) Number of connection points 1 Solid conductor (3) Number of connection points 1 Solid conductor (3) Fine-stranded conductor with insulated ferrule (3) Solid conductor (3) Fine-stranded conductor with insulated ferrule (3) Solid conductor (3) Fine-stranded conductor with insulated ferrule (3) Fine-stranded conductor with insulated ferrule (3) Solid conductor (4) Number of connection points 1 Solid conductor (4) Number of connection points 1 Solid conductor (4) No. of poles 5 Total number of connection types 4	Fine-stranded conductor	0.5 2.5 mm² / 18 14 AWG
Strip length 8 9 mm / 0.31 0.35 inch Connection type (2) Internal 2 Connection technology 2 PUSH WIRE® Number of connection points 1 Solid conductor (2) 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with insulated ferrule (2) 0.5 1 mm² / 18 16 AWG Fine-stranded conductor with uninsulated ferrule (2) 0.5 1.5 mm² / 18 14 AWG Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG 0.5 0.75 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) 0.5 0.75 mm² / 18 AWG Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) 0.5 0.75 mm² / 18 AWG No. of poles 5 Total number of connection points 25 Total number of connection types 4	Fine-stranded conductor with ferrule with plastic collar	0.5 1.5 mm² / 18 16 AWG
Connection type (2) Internal 2 Connection technology 2 PUSH WIRE® Number of connection points 1 Solid conductor (2) 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with insulated ferrule (2) 0.5 1.5 mm² / 18 14 AWG Fine-stranded conductor with uninsulated ferrule (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Number of connection points 1 Solid conductor (3) Fine-stranded conductor with insulated ferrule (3) Fine-stranded conductor with insulated ferrule (3) Fine-stranded conductor with insulated ferrule (3) Fine-stranded conductor with uninsulated ferrule (3) Connection type (4) Number of connection points 1 Solid conductor (4) Number of connection points 1 Solid conductor (5) Fine-stranded conductor with uninsulated ferrule (3) Solid conductor (4) Number of connection points 1 Solid conductor (4) No. of poles 5 Total number of connection points 5 Number of connection types 4	Fine-stranded conductor with ferrule without plastic collar	0.5 1.5 mm² / 18 16 AWG
Connection technology 2 Number of connection points 1 Solid conductor (2) 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with insulated ferrule (2) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with uninsulated ferrule (2) 0.5 1.5 mm² / 18 14 AWG Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) 6.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 7 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 8 9 mm / 0.31 0.35 inch 1 Solid conductor (3) 1 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 1 0.75 mm² / 18 AWG Connection type (4) Number of connection points 1 Solid conductor (4) 0.5 0.75 mm² / 18 AWG No. of poles 5 Total number of connection points 25 Total number of connection types 4	Strip length	8 9 mm / 0.31 0.35 inch
Number of connection points 1 Solid conductor (2) 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with insulated ferrule (2) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with uninsulated ferrule (2) 0.5 1.5 mm² / 18 14 AWG Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) 0.5 1 mm² / 18 AWG Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) 0.5 0.75 mm² / 18 AWG Total number of connection points 5 Total number of connection points 5 Number of connection types 4	Connection type (2)	Internal 2
Solid conductor (2) 0.5 2.5 mm² / 18 14 AWG Fine-stranded conductor with insulated ferrule (2) 0.5 1 mm² / 18 14 AWG Fine-stranded conductor with uninsulated ferrule (2) 0.5 1.5 mm² / 18 14 AWG Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) 0.5 1 mm² / 18 AWG Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) 0.5 0.75 mm² / 18 AWG No. of poles 5 Total number of connection points 25 Total number of potentials 5 Number of connection types 4	Connection technology 2	PUSH WIRE [®]
Fine-stranded conductor with insulated ferrule (2) O.5 1 mm² / 18 16 AWG Fine-stranded conductor with uninsulated ferrule (2) O.5 1.5 mm² / 18 14 AWG Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) Fine-stranded conductor with insulated ferrule (3) Fine-stranded conductor with insulated ferrule (3) Fine-stranded conductor with uninsulated ferrule (3) Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) No. of poles Total number of connection points 5 Number of connection types 4	Number of connection points	1
Fine-stranded conductor with uninsulated ferrule (2) Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) Fine-stranded conductor with insulated ferrule (3) Fine-stranded conductor with uninsulated ferrule (3) Connection type (4) Number of connection points 1 Solid conductor (4) No. of poles Total number of potentials Number of connection types 4	Solid conductor (2)	0.5 2.5 mm² / 18 14 AWG
Strip length (2) 8 9 mm / 0.31 0.35 inch Connection type (3) Internal 3 Number of connection points 1 Solid conductor (3) Fine-stranded conductor with insulated ferrule (3) Fine-stranded conductor with uninsulated ferrule (3) Connection type (4) Number of connection points 1 Solid conductor (4) No. of poles Total number of connection points 1 Sumber of connection points 5 Total number of connection types 4	Fine-stranded conductor with insulated ferrule (2)	0.5 1 mm² / 18 16 AWG
Connection type (3) Number of connection points 1 Solid conductor (3) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG0.5 0.75 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) 0.5 0.75 mm² / 18 AWG No. of poles 5 Total number of connection points 25 Total number of connection types 4	Fine-stranded conductor with uninsulated ferrule (2)	0.5 1.5 mm² / 18 14 AWG
Number of connection points 1 Solid conductor (3) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG0.5 0.75 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) 0.5 1 mm² / 18 AWG Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) 0.5 0.75 mm² / 18 AWG No. of poles 5 Total number of connection points 25 Total number of potentials 5 Number of connection types 4	Strip length (2)	8 9 mm / 0.31 0.35 inch
Solid conductor (3) 0.5 1.5 mm² / 18 16 AWG Fine-stranded conductor with insulated ferrule (3) 0.5 0.75 mm² / 18 AWG0.5 0.75 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) 0.5 1 mm² / 18 AWG Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) 0.5 0.75 mm² / 18 AWG No. of poles 5 Total number of connection points 25 Total number of potentials Number of connection types 4	Connection type (3)	Internal 3
Fine-stranded conductor with insulated ferrule (3) O.5 0.75 mm² / 18 AWG Fine-stranded conductor with uninsulated ferrule (3) Connection type (4) Number of connection points 1 Solid conductor (4) No. of poles Total number of connection points 5 Number of connection types 4	Number of connection points	1
Fine-stranded conductor with uninsulated ferrule (3) Connection type (4) Internal 4 Number of connection points 1 Solid conductor (4) No. of poles Total number of connection points 5 Number of connection types 4	Solid conductor (3)	0.5 1.5 mm² / 18 16 AWG
Connection type (4)Internal 4Number of connection points1Solid conductor (4)0.5 0.75 mm² / 18 AWGNo. of poles5Total number of connection points25Total number of potentials5Number of connection types4	Fine-stranded conductor with insulated ferrule (3)	0.5 0.75 mm² / 18 AWG0.5 0.75mm² / 18 AWG
Number of connection points1Solid conductor (4)0.5 0.75 mm² / 18 AWGNo. of poles5Total number of connection points25Total number of potentials5Number of connection types4	Fine-stranded conductor with uninsulated ferrule (3)	0.5 1 mm² / 18 AWG
Solid conductor (4) No. of poles 5 Total number of connection points 25 Total number of potentials 5 Number of connection types 4	Connection type (4)	Internal 4
No. of poles5Total number of connection points25Total number of potentials5Number of connection types4	Number of connection points	1
Total number of connection points 25 Total number of potentials 5 Number of connection types 4	Solid conductor (4)	0.5 0.75 mm² / 18 AWG
Total number of potentials 5 Number of connection types 4	No. of poles	5
Number of connection types 4	Total number of connection points	25
	Total number of potentials	5
Type of wiring Side-entry wiring	Number of connection types	4
	Type of wiring	Side-entry wiring

294-5045



Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	50 mm / 1.969 inch
Height from the surface	17 mm / 0.669 inch
Depth	27.3 mm / 1.075 inch

Mechanical data

Mounting type	Snap-in mounting foot
Marking	5-4-3-2-1

Material Data

Color	white
Material group	III a
Insulating material	Polycarbonate (PC)
Flammability class per UL94	VO
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.302 MJ
Weight	15.239 g

Environmental Requirements

Temperature stability	120°C	
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Commercial data

Product Group	8 (Misc. Chassis Mount Blocks)
Country of origin	СН
GTIN	4050821098270
Customs Tariff No.	85369010000

Compatible products

Strain relief plate

Item no.: 294-364 Strain relief plate; for 294 Series; for multicore cables; 3- to 5-pole; with secured clamp	294-364
Item no.: 294-370 Strain relief; for 294 Series; with snap-in mounting feet	294-370
Item no.: 294-375 Strain relief; for 294 Series; without snap-in mounting feet	294-375

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- Williams	Item no.: 294-384 Strain relief plate; for 294 Series; for single strands; 3- to 5-pole; with secured clamp	294-384
tools		
/	Item no.: 206-294 Disconnection tool; suitable for removing conductors from PUSH WIRE® contacts	206-294
	Item no.: 294-199 Operating tool; for pressing the snap-in mounting feet into the mounting plate; For safe and easy fitting of the ground contacts; for 294 Series	294-199

Downloads

Documentation

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